Andrew automotivation Page

FROM THE SERIES OF HANDY WORKSHOP GUIDES

TYRE

PRESSURE MONITORING SENSORS AND EQUIPMENT GUIDE

Huf

SCHRADER

VDO

Sykes-Pickavant

ATEQ

OE & MATCHING QUALITY

TYRE PRESSURE MONITORING SYSTEM PARTS

2014

An introduction to Tyre Pressure Monitoring Systems

HISTORY

The first passenger vehicle to use tyre pressure monitors was the Porsche 959 in 1986. The 959 used a hollow spoked magnesium alloy wheel with integrated tyre pressure monitor developed for the PSK (Porsche-Steuer Kupplung) system.

Tyre pressure monitors remained uncommon until the late 90's when the Firestone Tyre company in the US had to recall several of it's 15 inch tyre models due to over 100 deaths from vehicles rolling over. The roll overs were linked to tyre tread separation caused by low tyre pressures. As a result of the deaths and recall the then President Clinton pushed through the TREAD Act. The TREAD act mandated the use of suitable tyre pressure monitoring, in vehicles under 4.5 tonnes sold in America after September 2007, to alert the driver to under inflated tyres. A similar mandate has been introduced in the EU, stating all new models produced after 2012 must also be equipped with tyre pressure monitors.

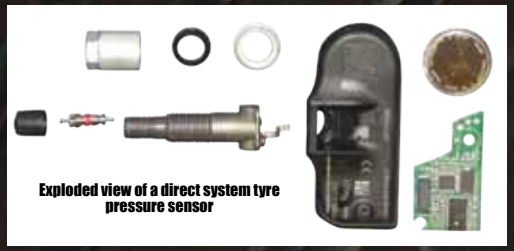
PRECAUTIONS

- Sensors can be damaged when a new tyre is fitted due to the location they are mounted
- The battery life of a tyre pressure sensor should be between 7-10 years but if the tyre has had several flats this will dramatically reduce the life of the battery

- It is important that if the valve core is replaced it should be replaced with a nickel plated core as a standard brass core will corrode the aluminium stem
- Indirect systems are unable to recognise an equal loss of pressure over all the tyres
- Indirect systems must be reset when a tyre has been re-inflated or changed

ANATOMY

There are currently two main types of tyre pressure monitoring systems in use, these are direct and indirect systems.



Exploded view of a direct system tyre pressure sensor

DIRECT SYSTEMS use a tyre pressure sensor in each wheel, the sensors are made up of a valve stem which is attached to a sensor body. The body houses a battery, a silicon based pressure sensor and an RF (radio frequency) oscillator to transmit information. The system also requires an RF receiver, this can be stand alone or integrated into other vehicle electronic systems. Each of the sensors periodically triggers a transmission of pressure status to the RF receiver. This information is then displayed to the driver via a warning symbol or figure, if a leak is detected the time between transmissions shortens or becomes continuous to alert the driver to the problem.

INDIRECT SYSTEMS do not require tyre pressure sensors in each wheel as they use existing ABS sensors to calculate pressure loss not actual pressures. The pressure loss is calculated by measuring the rotational speed of the wheels and using pre stored values as reference. One of the major downsides to this system is that the driver is only alerted after a 25% loss in pressure in a single wheel.

Dear Customer

Welcome to the third of our Handy Workshop Guides, created to be kept in your tool box for easy reference when you need it.

Did you know that the Andrew Page Group specialise in tyre pressure monitors and the necessary equipment to service or replace them?

With our comprehensive range of Original Equipment suppliers such as Huf, VDO, Schrader and ATEQ we offer a real alternative to the VM main dealers for quality parts and equipment in the aftermarket.

All of our branches are able to assist with product application and supply, while our **AP-Tech** and **Caftec** teams are able to offer diagnostic equipment and support. Call them for further details on **0845 602 3436.**

Huf · Sykes-Pickavant · ATEQ · VDO · SCHRADER

FITMENT AND APPLICATION GUIDE

YOUR GUIDE TO TYRE PRESSURE MONITORING SYSTEMS

Tyre Pressure Sensor Management Tools

Sykes-Pickavant TPMS - Sensor Testing, Activation & Clone Valve Programming Tool

- Built-in sensor checking – no exciter tool required
- Re-program “Clone” valves wirelessly
- Able to copy old valve ID or create new ones
- Test feature allows for checking operation of sensors, and sensor batteries
- Sensor re-programming information
- Includes sensor replacement, technical and tyre rotation procedures
- Print test results / file test results & update the software/applications (via PC)
- Displays procedures for new sensors to be synchronised with vehicle TPMS ECU (pairing)

Sykes-Pickavant TPMS PLUS - High Level Diagnostic TPMS Tool

All the features of the standard TPMS Tool (above), PLUS the following additional features:

- Connects to TPMS ECU via EOBD diagnostic lead (Containing full multiplexing functionality)
- Sensor re-programming via the EOBD socket
- Sensor & TPMS ECU fault code reading/ deletion

ATEQ VT56 Diagnostic TPMS Tool

The VT56 is a fully updateable, universal TPMS tool. It is designed to activate all TPMS sensors and store the sensor data.

Using the OBDII connector this data can then be transferred to the vehicle to reset the ECU when a sensor is replaced or wheel positions are changed. All popular programmable sensors can be programmed with the VT56.

VT56 Features

- Part Number Lookup
- OBD II for ECU Reset
- Dated History File
- OBD II Position
- Key Fob & RF Signal Testers
- Wi-Fi Connection to PC
- Barcode Scanner for Vehicle ID
- Bluetooth Connection for Printing
- DTC Read & Reset
- European / Asian / US Vehicles
- Full Relearn Procedures

VT56 OBDII Kit includes:

- VT56 Diagnostic Tool
- OBDII Interface Connector
- Docking Station with Thermal Printer
- OBDII to VT56 Ethernet Cable
- USB PC Cable
- Power Adapter
- Update Software
- Quickstart User Manual
- ATEQ Hard Kit Carry Case

TRIGGERS ALL KNOWN SENSORS

ATEQ VT55 OBDII Trigger Tool

A universal TPMS trigger tool to test sensors, capture the data and downloads to the ECU via the OBDII socket, with a simple user interface.

The latest feature to be released for the VT55 allows the tool to reprogram blank sensors from Schrader and also configure multisensors from VDO and HUF. No other tool in the market has this capability for all of these brands, further cementing the VT55 as the TPMS tool to have. The ATEQ VT55 is fully updatable via the web (or via an SD card) as new cars and sensors come to market.

Sensor Servicing

TPMS Service Starter Kits

Starter Kit 1 - Contains all the parts required to extend the life of a sensor.

- 10 Pack of 5 Service Kits
- 3 Service Valves
- 20 Screws for Snap in Valves
- 5 Snap in Valves
- 50 Nickel Plated Valve Cores
- 50 Pressure Seal TPMS Caps
- Plastic Storage Container

Starter Kit 2 - Ideal for both extending sensor life and replacing sensors

- 8 Most Popular Sensors
- 10 Pack of 10 Service Kits
- 3 Service Valves
- 100 Screws for Snap in Valves
- 10 Snap in Valves
- 100 Nickel Plated Valve Cores
- 100 Pressure Seal TPMS Caps
- Plastic Storage Container

Starter Kit 3 - Supplied in a useful metal storage cabinet, this comprehensive starter kit contains all you need for both sensor maintenance and replacement.

- 16 Most Popular Sensors
- 10 Pack of 10 Service Kits
- 3 Service Valves
- 100 Screws for Snap in Valves
- 10 Snap in Valves
- 100 Nickel Plated Valve Cores
- 100 Pressure Seal TPMS Caps

Essential Tools

SCHRADER ATEQ

Torque Screwdriver

Many tyre sensors need to have the outer stem collar correctly tightened to the correct torque to ensure an airtight seal. A low torque screwdriver which has a variable torque from 0 to 8.5 Nm must be used.

Torque Valve Core Tool

Correct fitment of the nickel plated valve core is very important in an aluminium valve.

For this a low torque pre-set core tool must be used.

Grommet Removal Tool

Designed to assist with the removal of the rubber grommet from the aluminium stem of a sensor.

The incorporated receiving hole can be used to install a new grommet.

Sykes-Pickavant.

TPMS Comprehensive Torque Tool Kit

Set of tools for the correct application of critical torque settings when working with TPMS systems on modern vehicles. Contains all the appropriate tools for servicing and replacing TPMS Valve Cores and TPMS Valve Nuts. Supplied in foam (ideal for tool box drawer)

Includes:

- Torque Screwdriver 0.1 - 3.0Nm
- Torque Screwdriver 2.0 - 10.0Nm
- 3/8” sq dr T-Bar Handle - for 80080200
- 1/4” Valve Core Tool
- 1/4” Torx Bit T10
- 1/4” Deep Socket 11mm
- 1/4” Deep Socket 12mm
- TPMS Grommet Tool

Tyre Pressure Sensor Application Guide

We are constantly updating and expanding our range of tyre pressure sensors, if the application you require is not listed, please call our Engine Management Centre on 023 9221 0020 for the latest data.

WARNING:
- To avoid corrosion, never use raw or nickel plated brass caps - only use plastic or aluminium caps
- Use only nickel plated valve cores and apply the recommended torque
- Each time you change a tyre, replace the accessories systematically (core, cap, nut, metal washer, seal/joint, screw)

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
ALFA ROMEO	Alfa 8C (920)	2007 --> 2009	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
AUDI	A4 (8E) / S4 / Avant / Quattro	2004 --> 2007	Beru 0 532 207 007	RDE007	65739-67	Huf/Beru	4	4	D
	A4 Cabrio	2004 --> 2008	Beru 0 532 207 007	RDE007	65739-67	Huf/Beru	4	4	D
	A6 Allroad (4B)	2000 --> 2005	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	A6 Allroad (4F)	2006 --> 2009	Beru 0 532 207 007	RDE007 to chassis N° 4F-9-043 000	65739-67	Huf/Beru	4	4	D
	A6 Allroad (4F)	2009 -->	Beru 0 532 207 011	RDE011 from chassis N° 4F-9-043 001	66080-67	Huf/Beru	4	4	D
	A6 (4F) / S6 / Avant / Quattro	2004 --> 2009	Beru 0 532 207 007	RDE007 to chassis N° 4F-9N043 000 4F-9Y000 220	65739-67	Huf/Beru	4	4	D
	A6 (4F) / S6 / Avant / Quattro	2009 -->	Beru 0 532 207 011	RDE011 from chassis N° 4F-9N043 001 4F-9Y000 221	66080-67	Huf/Beru	4	4	D
	A8 / S8 (4D), (D2)	1999 --> 2002	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	A8 / S8 (4E), (D3)	2002 -->		RDE001	65735-67	Huf/Beru	4	4	D
	R8	2007 --> 2009	Beru 0 532 207 007	RDE007 to chassis N° 42-9-003 540	65739-67	Huf/Beru	4	4	D
	R8	2009 -->	Beru 0 532 207 011	RDE011 from chassis N° 42-9-003 541	66080-67	Huf/Beru	4	4	D
	RS6, RS6 plus	2000 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	RS4 (8E) / Cabrio / Avant / Quattro	2006 -->	Beru 0 532 207 007	RDE007	65739-67	Huf/Beru	4	4	D
	Q7 (4L)	2005 --> 05/2009	Beru 0 532 207 007	RDE007 to chassis N° 4L-9-036 000	65739-67	Huf/Beru	4	4	D
	Q7 (4L)	2009 -->	Beru 0 532 207 011	RDE011 from chassis N° 4L-9-036 001	66080-67	Huf/Beru	4	4	D
	Q7 3,0 TFSI (CJWC)	2010 -->	Beru 0 532 207 011	RDE011 from chassis N°4L-9-036-001	66080-67	Huf/Beru	4	4	D
BENTLEY	Continental GT (614)	2003 --> 2005	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	Continental GT (614)	2005 -->	Beru 0 532 207 007	RDE007	65739-67	Huf/Beru	4	4	D
	Continental Flying Spur (611)	2005 -->	Beru 0 532 207 007	RDE007	65739-67	Huf/Beru	4	4	D
BMW	All BMW models since 2011	2011 -->	Beru 0 532 207 012	RDE012	66081-67	Huf/Beru	4	4	D
	5 Series (E39)	1998 --> 2003	Beru 0 532 207 002	RDE002	65736-67	Huf/Beru	4	4	D
	5 Series (F10) (F11), GT (F11)	2010 -->	Beru 0 532 207 012	RDE012	66081-67	Huf/Beru	4	4	D
	6 Series	2010 -->	Beru 0 532 207 012	RDE012	66081-67	Huf/Beru	4	4	D
	7 Series (E38)	1998 --> 2001	Beru 0 532 207 002	RDE002	65736-67	Huf/Beru	4	4	D
	7 Series (E65)	2001 --> 2006	Beru 0 532 207 002	RDE002	65736-67	Huf/Beru	4	4	D
	7 Series (F01) (F02) (F04)	2010 -->	Beru 0 532 207 012	RDE012	66081-67	Huf/Beru	4	4	D
	X5 (E53)	1999 --> 2006	Beru 0 532 207 003	RDE003	65737-67	Huf/Beru	4	4	D
CHEVROLET	Captiva	2011 -->	SEL 90518185	25789964	65649-67	Snap-in REV4	--	14	D
	Trax	2013 -->	SEL 9051839	20922901	66074-67	Snap-in REV4	--	14	D
	Volt	2012 -->	SEL 90518407	13348393	65889-67	Gen2/Gen3	8	--	B
CHRYSLER	300C	2005 --> 2010	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA AB	65722-67	Gen alpha	6	--	B
	300C	2006 -->	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA AB	65722-67	Gen alpha	6	--	B
	300C	2011 -->	SEL 90518358	56029398AB	66073-67	Snap-in REV5	--	14	B

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
CHRYSLER Continued	Voyager	2011 -->	SEL 90518358	56029398AB	66073-67	Snap-in REV5	--	14	B
CITROEN	Berlingo	2009 -->	SEL 90818333	9683420380	65597-67	Snap-in REV4	--	14	A
	Dispatch	2011 -->	SEL70503487	9677130580	66822-67	Snap-in REV4	--	14	A
	C4 & C4 coupé	2004 --> 2008	VDO S180014805Z	S120123004	65396-67	TG1B	8	--	A
	C4	2008 -->	SEL 90818333	9683420380	65597-67	Snap-in REV4	--	14	A
	Picasso C4	2006 -->	SEL 90818333	9683420380	65597-67	Snap-in REV4	--	14	A
	Picasso C4 facelift	2008 -->	SEL 90818333	9683420380	65597-67	Snap-in REV4	--	14	A
	C5	2001 --> 2004	SEL 9634866180	--	60311-67	Gen2/Gen3	425	--	A
	C5 II	2004 --> 2008	VDO S180014805Z	S120123004	65396-67	TG1B	8	--	A
	C5 III	2008 -->	VDO S180014805Z	S120123004	65396-67	TG1B	8	--	A
	C6	2005 -->	VDO S180014805Z	S120123004	65396-67	TG1B	8	--	A
	C8	2002 --> 2005	SEL	9634866180	60311-67	Gen2/Gen3	425	--	A
	C8	2005 -->	VDO S180014805Z	S120123004	65396-67	TG1B	8	--	A
	DS4	2010 -->	SEL 90818333	9683420380	65597-67	Snap-in REV4	--	14	A
	DS5	2011 -->	SEL 90818333	9683420380	65597-67	Snap-in REV4	--	14	A
DODGE	Caliber	2007 -->	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA AB	65722-67	Gen alpha	6	--	B
						Snap-in REV5	--	14	B
	Nitro	2007 -->	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA AB	65722-67	Gen alpha	6	--	B
	Ram series Pickup	2010 -->	SEL 90518358	56029398AA-AB	66073-67	Snap-in REV5	--	14	B
FERRARI	California (F149)	2009 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
	550 Maranello Evoluzione (F133e)	2002 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	575 M-Maranello	2002 --> 2006	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	Enzo (F140)	2003 --> 2004	Beru 0 532 207 005	RDE005	65738-67	Huf/Beru	4	4	D
	612 Scaglietti (F137)	2004 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	599 GTB (F141)	2004 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	F430 / F430 spider (F131e)	2005 --> 2007	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	F430 / F430 spider (F131evo)	2007 -->	Beru 0 532 207 007	RDE007	65739-67	Huf/Beru	4	4	D
	458 Italia (F142)	2009 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
	FXX	2005 --> 2006	Beru 0 532 207 005	RDE005	65738-67	Huf/Beru	4	4	D
FIAT	500L	2012 -->	SEL 90518358	56029398AA-AB	66073-67	Snap-in REV5	--	14	D
	Ulysse	2002 --> 2005	SEL 9634866180	--	60311-67	Gen2/Gen3	425	--	A
	Ulysse 2F	2005 --> 2010	VDO S180014805Z	S120123004	65396-67	TG1B	8	--	A
FORD	Explorer	2011 -->	SEL 90518346	BB5T-1A180-AA	66137-67	Snap-in REV5	--	14	A
	Galaxy	2006 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	Mondeo IV	2007 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	S-Max	2006 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
HUMMER	H3	2005 --> 2012	SEL 90518185	25789964	65649-67	Snap-in REV4	--	14	D
HYUNDAI	i20	2008 -->	VDO S180084710Z	S180052012	66040-67	TG1C	8	--	B
	i30	2007-->	VDO S180014820Z	S180030002	65767-67	TG1B	8	--	B

(A) Diagnostic tool must be used to reprogram the vehicle with the id code of the sensors
(B) Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connection is available).
(C) The position of the vehicle valves is identified by coloured rings
(D) For sensor ID code reprogramming, refer to the vehicle users manual

ENGINE MANAGEMENT CENTRE HELPLINE 023 9221 0020

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
HYUNDAI Continued	i30 cw	2009 -->	VDO S180014820Z	S180030002	65767-67	TG1B	8	--	B
	ix20	2010 -->	VDO S180084710Z	S180052012	66040-67	TG1C	8	--	B
	Veloster	2011 -->	SEL 90518481	52933-2V000	66128-67	Snap-in REV4	--	14	A
INFINITI	FX30	2008 -->	SEL	407001AY0A	65938-67	Gen2/Gen3	8	--	A
	FX50	2008 -->	SEL	407001AY0A	65938-67	Gen2/Gen3	8	--	A
	G37 Saloon	2008 -->	SEL 90518394	40700JY00C	65938-67	Gen2/Gen3	8	--	A
	G37 Coupe	2008 -->	SEL 90518394	40700JY00C	65938-67	Gen2/Gen3	8	--	A
	J50 EX37	2008 -->	SEL 90518394	40700JY00C	65938-67	Gen2/Gen3	8	--	A
	S51 FX37	2008 -->	SEL 90518394	40700JY00C	65938-67	Gen2/Gen3	8	--	A
JAGUAR	XF	2007 -->	VDO S180084770Z	S180052022	66043-67	TG1C	8	--	B
	XJ (X350)	2005 -->	VDO S180084770Z	S180052022	66043-67	TG1C	8	--	B
	XK	2006 -->	VDO S180084770Z	S180052022	66043-67	TG1C	8	--	B
	New X-Type	2007 -->	VDO S180084770Z	S180052022	66043-67	TG1C	8	--	B
JEEP	Commander	2006 --> 2010	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA AB	65722-67	Gen alpha	6	--	B
	Compass	2011 -->	SEL 90518434	56029481AB	65722-67	Snap-in REV5	--	14	B
	Grand Cherokee	2006 --> 2010	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA AB	65722-67	Gen alpha	6	--	B
	Grand Cherokee	2011 -->	SEL 90518358	56029398AA-AB	66073-67	Snap-in REV5	--	14	B
	Liberty	2010 -->	SEL 90518434	56029481AA-AB	65722-67	Snap-in REV5	--	14	B
	Patriot	2012 -->	SEL 90518434	56029481AB	65722-67	Snap-in REV5	--	14	B
	Wrangler	2007 --> 2010	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA AB	65722-67	Gen alpha	6	--	B
	Wrangler	2010 -->	SEL 90518358	56029398AB	66073-67	Snap-in REV5	--	14	B
KIA	Cee'd - Procee'd	2007 --> 2011	VDO S180014820Z	S180030002	65767-67	TG1B	8	--	B
	Optima 11, Optima hybrid	2011 -->	VDO S180084710Z	S180052012	66040-67	TG1C	8	--	B
	Sorento	2009 -->	VDO S180084710Z	S180052012	66040-67	TG1C	8	--	B
	Soul 1.6 CVVT	2008 -->	VDO S180084710Z	S180052012	66040-67	TG1C	8	--	B
	Venga	2010 -->	VDO S180084710Z	S180052012	66040-67	TG1C	8	--	B
LAND ROVER	Discovery	2005 -->	VDO A2C59511308	S180052022/S120123002	65741-67	TG1B	8	--	B
	Evoque	2011 -->	VDO A2C59511308	S180052022/S120123002	65741-67	TG1B	8	--	B
	Freelander	2005 -->	VDO S180084770Z	S180052022/S120123002	66043-67	TG1C	8	--	B
	Range Rover (L30)	2002 --> 2003	Beru 0 532 207 003	RDE003	65737-67	Huf/Beru	4	4	B
	Range Rover	2005 -->	VDO A2C59511308	S180052022/S120123002	65741-67	TG1B	8	--	B
	Range Rover Vogue	2005 -->	VDO A2C59511308	S180052022/S120123002	65741-67	TG1B	8	--	B
LOTUS	Elise	2008 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	65717-67	Gen2/Gen3	75	--	B
	Evora	2010 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	65717-67	Gen2/Gen3	75	--	B
	Exige	2008 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	65717-67	Gen2/Gen3	75	--	B
MASERATI	Coupé (M145)	--> 2009	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	Coupé (M145)	2009 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
	Quattroporte (M139)	2004 --> 2009	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D

(A) Diagnostic tool must be used to reprogram the vehicle with the id code of the sensors
(B) Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connection is available).
(C) The position of the vehicle valves is identified by coloured rings
(D) For sensor ID code reprogramming, refer to the vehicle users manual

ENGINE MANAGEMENT CENTRE HELPLINE 023 9221 0020

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
MASERATI Continued	Quattroporte (M139)	2010 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
MAYBACH	Maybach 57	2002 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	Maybach 62	2002 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	Landaulet	2009 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
MAZDA	CX7	2009 -->	VDO S180084720Z	S80052018	66041-67	TG1C	8	--	B
	MX5	2010 -->	VDO S180084720Z	S80052018	66041-67	TG1C	8	--	B
	3	2009 -->	VDO S180084720Z	S80052018	66041-67	TG1C	8	--	B
	5	2010 -->	VDO S180084720Z	S80052018	66041-67	TG1C	8	--	B
	6	2008 -->	VDO S180084720Z	S80052018	66041-67	TG1C	8	--	B
MERCEDES	AMG E-Class (W210 AMG)	1999 --> 2002	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	AMG (W197 & others)	2010 -->	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	C-Class (204)	2008 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	CL-Class (216)	2009 --> 2012	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	CLC-Class (216)	2008 --> 2011	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	CLK (W209)	2007 --> 2009	SEL 90518279 orSEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	CLK (W207)	2009 -->	SEL 90518279 orSEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	CLS (C219)	2004 --> 2005	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	CLS (W219)	2005 --> 2009	VDO S180014730Z	S122228002	65646-67	MB	6	--	B
	CLS (W218)	2009 --> 2016	SEL 90518384	A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	E-Class (W211)	2002 --> 2005	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	E-Class (W211)	2005 --> 2009	VDO S180014730Z	S122228002	65646-67	MB	6	--	B
	E-Class (W212)	2009 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	G-Class (463)	2007 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	GL-Class (X164)	2009 --> 2011	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	GLK-Class (X204)	2008 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	M-Class (W164)	2005 --> 2009	VDO S180014730Z	S122228002	65646-67	MB	6	--	B
	M-Class	2009 --> 2016	SEL 90518384	A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	ML-Class (W166)	2011 --> 2016	SEL 90518384	A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	R-Class (W251)	2006 --> 2009	VDO S180014730Z	S122228002	65646-67	MB	6	--	B

(A) Diagnostic tool must be used to reprogram the vehicle with the id code of the sensors
(B) Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connection is available).
(C) The position of the vehicle valves is identified by coloured rings
(D) For sensor ID code reprogramming, refer to the vehicle users manual

ENGINE MANAGEMENT CENTRE HELPLINE 023 9221 0020

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
MERCEDES Continued	R-Class	2009 --> 2016	SEL 90518384	A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	S-Class coupé (C215)	1999 --> 2005	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	S-Class (W220)	1999 --> 2005	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	S-Class (W221)	2005 --> 2009	VDO S180014730Z	S122228002	65646-67	MB	6	--	B
	S-Class (W221)	2009 --> 2012	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	S-Class (W222)	2013 --> 2016	SEL 90518384	A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	SL (W230)	2005 --> 2011	VDO S180014730Z	S122228002	65646-67	MB	6	--	B
	SL (W231)	2012 --> 2016	SEL 90518384	A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	SL-Roadster (R230)	2001 --> 2005	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	SLK (171/172)	2007 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	SLR (R199)	2004 -->	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	SLS (197)	2010 --> 2016	SEL 90518384	A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	Smart (451)	2007 --> 2014	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	Sprinter NVC 3 (906)	2006 --> 2011	VDO A2C59511309	S122228004	65740-67	MB	6	--	B
	Sprinter	2011 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
	Viano	2007 -->	VDO A2C59511309	S122228004	65740-67	MB	6	--	B
	Vito NVC 2 (639)	2006 -->	VDO A2C59511309	S122228004	65740-67	MB	6	--	B
NISSAN	370Z	2008 -->	SEL 90518394	40700JY00C	65938-67	Gen2/Gen3	8	--	A
	PRIMERA	2002 -->	SEL 70503059	40700AV600	65191-67	Gen2/Gen3	75	--	A
PEUGEOT	1007 (KM)	2005 --> 2009	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A
	207	2006 --> 2012	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A
	307	2003 --> 2007	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A
	307 facelift	2007 -->	SEL 90818333	9673860880	65597-67	Snap-in REV4	--	14	A
	308	2007 -->	SEL 90818333	9673860880	65597-67	Snap-in REV4	--	14	A
	308 SW	2008 -->	SEL 90818333	9673860880	65597-67	Snap-in REV4	--	14	A
	3008	2009 -->	SEL 90818333	9673860880	65597-67	Snap-in REV4	--	14	A
	407 & 407 SW	2004 --> 2011	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A
	407 coupé	2005 -->	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A
	508	2011 -->	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A
	5008	2009 -->	SEL 90818333	9673860880	65597-67	Snap-in REV4	--	14	A
	607	2000 --> 2004	SEL 9634866180	--	60311-67	Gen2/Gen3	425	--	A
	607 II	2004 --> 2010	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A
	807	2002 --> 2005	SEL 9634866180	--	60311-67	Gen2/Gen3	425	--	A
	807	2005 -->	VDO S180014805Z	S120120001	65396-67	TG1B	8	--	A

(A) Diagnostic tool must be used to reprogram the vehicle with the id code of the sensors
(B) Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connection is available).
(C) The position of the vehicle valves is identified by coloured rings
(D) For sensor ID code reprogramming, refer to the vehicle users manual

ENGINE MANAGEMENT CENTRE HELPLINE 023 9221 0020

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
PEUGEOT Continued	Expert	2011 -->	SEL70503487	9677130580	66822-67	Snap-in REV4	--	14	A
	Partner	2008 -->	SEL 90818333	9673860880	65597-67	Snap-in REV4	--	14	A
	RCZ	2010 -->	SEL 90818333	9673860880	65597-67	Snap-in REV4	--	14	A
PORSCHE	911 (997-1 Carrera)	2005 --> 2008	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	911 (997-2 Carrera)	2009 --> 2011	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
	911 (997T - Turbo)	2007 --> 2009	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	911 (997T2 - Turbo)	2010 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
	991	2012 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
	997 (GT3)	2007 --> 2009	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	997 (GT3-2)	2010 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
	Boxster (987)	2005 --> 2008	Beru 0 532 207 001	RDE001 Chassis N° WP0 ZZZ 98 Z 5 5 WP0 ZZZ 98 Z 6 5 WP0 ZZZ 98 Z 7 5 WP0 ZZZ 98 Z 8 5	65735-67	Huf/Beru	4	4	D
	Boxster (987-2)	2008 -->	Beru 0 532 207 010	RDE010 Chassis N° WP0 ZZZ 99 S 9 S	66079-67	Huf/Beru	4	4	D
	Carrera GT	2003 --> 2006	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	Cayenne (955 - 9PA1)	2007 -->	Beru 0 532 207 007	RDE007 Chassis N° WP0 ZZZ 9 PA 7 L WP0 ZZZ 9 PA 8 L WP1 ZZZ 9 PA 7 L WP1 ZZZ 9 PA 8 L	65739-67	Huf/Beru	4	4	D
	Cayenne (955 - 92A)	2009 -->	Beru 0 532 207 011	RDE011 Chassis N° WP0 ZZZ 9 PA A L A = 2010 B = 2011	66080-67	Huf/Beru	4	4	D
	Cayman (987C)	2005 --> 2008	Beru 0 532 207 001	RDE001 Chassis N° WP0 ZZZ 98 Z 6	65735-67	Huf/Beru	4	4	D
	Cayman (987C2)	2009 -->	Beru 0 532 207 010	RDE010 Chassis N° WP0 ZZZ 98 Z 9	66079-67	Huf/Beru	4	4	D
	Panamera (970)	2009 -->	Beru 0 532 207 010	RDE010	66079-67	Huf/Beru	4	4	D
RENAULT	Clio III	2005 -->	SEL 8200253215	--	65336-67	Gen2/Gen3	75	--	A
	Espace IV	2002 -->	SEL 8200023746 (alloy) SEL 8200169160 (steel)	--	60234-67 alloy rims 42323-67 steel rims	Gen2/Gen3	alloy4,25/ steel7,5	--	A
	Koleos	2008 -->	SEL 90518394	40700JY00C	65938-67	Gen2/Gen3	8	--	A
	Laguna II	2002 --> 2005	SEL 8200023746 (alloy) SEL 8200169160 (steel)	--	60234-67 alloy rims 42323-67 steel rims	Gen2/Gen3	alloy4,25/ steel7,5	--	A
	Laguna II facelift	2005 --> 2007	SEL 8200023746 (alloy) SEL 8200169160 (steel)	--	60234-67 alloy rims 42323-67 steel rims	Gen2/Gen3	alloy4,25/ steel7,5	--	A
	Laguna III	2007 -->	VDO S180084700Z	S180052004	65939-67	TG1C	8	--	B
	Megane 1	2001 --> 2002	SEL 8200023746 (alloy) SEL 8200169160 (steel)	--	60234-67 alloy rims 42323-67 steel rims	Gen2/Gen3	alloy4,25/ steel7,5	--	A
	Megane II	2002 --> 2008	VDO S180014810Z	S120123006	65397-67	TG1B	85	--	A + C
	Megane III	2008 -->	VDO S180084700Z	S180052004	65939-67	TG1C	8	--	B
	Modus	2005 -->	SEL8200253215	--	65336-67	Gen2/Gen3	75	--	A
	Scenic 1	2001 --> 2003	SEL 8200023746 (alloy) SEL 8200169160 (steel)	--	60234-67 alloy rims 42323-67 steel rims	Gen2/Gen3	alloy4,25/ steel7,5	--	A
	Scenic II	2003 --> 2008	VDO S180014810Z	S120123006	65397-67	TG1B	85	--	A + C
	Scenic II facelift	2006 --> 2008	VDO (*)	S120123006A	65397-67	TG1B	85	--	A + C

(A) Diagnostic tool must be used to reprogram the vehicle with the id code of the sensors
(B) Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connection is available).
(C) The position of the vehicle valves is identified by coloured rings
(D) For sensor ID code reprogramming, refer to the vehicle users manual

ENGINE MANAGEMENT CENTRE HELPLINE 023 9221 0020

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
RENAULT Continued	Scenic III	2009 -->	VDO S180084700Z	S180052004	65939-67	TG1C	8	--	B
	Scenic RX4	2001 --> 2003	SEL 8200023746 (alloy) SEL 8200169160 (steel)	--	60234-67 alloy rims 42323-67 steel rims	Gen2/Gen3	alloy4,25/ steel7,5	--	A
	Vel Satis	2002 -->	SEL 8200023746 (alloy) SEL 8200169160 (steel)	--	60234-67 alloy rims 42323-67 steel rims	Gen2/Gen3	alloy4,25/ steel7,5	--	A
(*) 8200023746 black/ 8200169160 blue / 8200086582 grey / 8200293117 green									
SAAB	9.3	2003 --> 2006	SEL 90518060 or SEL90518078	24437708 or 13172567	65335-67	Gen2/Gen3	75	--	B
	9.3	2006 --> 2009	SEL 90518150	13227143	65717-67	Gen3	75	--	B
	9.3	2009 --> 2012	SEL 90518352 or SEL 90518407	13327259 or 13348393	65889-67	Gen2/Gen3	8	--	B
	9.5	2003 --> 2006	SEL 90518060 or SEL90518078	24437708 or 13172567	65335-67	Gen2/Gen3	75	--	B
	9.5	2006 --> 2009	SEL 90518150	13227143	65717-67	Gen3	75	--	B
	9.5	2009 --> 2012	SEL 90518352 or SEL 90518407	13327259 or 13348393	65889-67	Gen2/Gen3	8	--	B
SMART	Fortwo	2007 -->	SEL 90518384	--	65971-67 alloy rims 65970-67 steel rims	Gen alpha	6	--	B
VAUXHALL	Adam	2012-->	SEL 90518571	13581562	66854-67	Snap-in REV4	--	14	B
	Ampera	2012 -->	SEL 90518407	13348393	65889-67	Gen2/Gen3	8	--	B
	Antara	2006 --> 2010	SEL 90518185	25789964	65649-67	Snap-in REV4	--	14	D
	Antara	2011 -->	SEL 9051839	20922901	66074-67	Snap-in rev4	--	14	D
	Astra H	2004 -->2009	SEL 90518451	13354312	66157-67	Gen2/Gen3	6	--	A
	Astra J	2005 -->	SEL 90518352 or SEL 90518407	1331134 or 13327259 or 13348393	65889-67	Gen2/Gen3	8	--	B
	Cascada	2013 -->	SEL 90518407	13348393	65889-67	Gen2/Gen3	8	--	B
	Insignia	2008 -->	SEL 90518352 or SEL 90518407	1331134 or 13327259 or 13348393	65889-67	Gen2/Gen3	8	--	B
	Mokka	2012 -->	SEL 90518185	25789964	65649-67	Snap-in REV4	--	14	A
	Signum	2002 --> 2009	SEL 13172567	--	65335-67	Gen2/Gen3	75	--	B
	Vectra	2002 --> 2008	SEL 13172567 or SEL 24437708	--	65335-67	Gen2/Gen3	75	--	B
	Vectra Estate	--> 2009	SEL 13172567	--	65335-67	Gen2/Gen3	75	--	B
	Zafira B	2004 -->	SEL 90518451	13354312	66157-67	Gen2/Gen3	6	--	A
	Zafira tourer	2009 -->	SEL 90518352 or SEL 90518407	1331134 or 13327259 or 13348393	65889-67	Gen2/Gen3	8	--	B
VOLKSWAGEN	CC (MY 2011)	2012 -->	Beru 0 532 207 013	RDE013	66094-67	Huf/Beru	4	4	D
	New Beetle	2006 --> 2010	VDO S180014701Z	S122215002	65644-67	TG1B	8	--	B
	Passat	2005 --> 2010	VDO S180014701Z	S122215002	65644-67	TG1B	8	--	B
	Passat Syncro	2005 --> 2010	VDO S180014701Z	S122215002	65644-67	TG1B	8	--	B
	Passat	2010 -->	Beru 0 532 207 013	RDE013	66094-67	Huf/Beru	4	4	D
	Passat CC	2008 -->	Beru 0 532 207 013	RDE013	66094-67	Huf/Beru	4	4	D
	Phaeton	2002 --> 2007	Beru 0 532 207 001	RDE001	65735-67	Huf/Beru	4	4	D
	Phaeton (3D)	2007 --> 2010	Beru 0 532 207 007	RDE007 Chassis N° 3D-8-000 001 --> 3D-9-100 001 3D-A-000 001 --> 3D-A-100 001	65739-67	Huf/Beru	4	4	D
	Phaeton (2011)	2010 -->	Beru 0 532 207 011	RDE011 Chassis N° 3D-B-000 001 --> 3D-B-100 000	66080-67	Huf/Beru	4	4	D
	Tiguan (5N)	2009 -->	Beru 0 532 207 013	RDE013	66094-67	Huf/Beru	4	4	D

(A) Diagnostic tool must be used to reprogram the vehicle with the id code of the sensors
(B) Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connection is available).
(C) The position of the vehicle valves is identified by coloured rings
(D) For sensor ID code reprogramming, refer to the vehicle users manual

ENGINE MANAGEMENT CENTRE HELPLINE 023 9221 0020

Make	Model	Year	Manufacturer	Number on sensor	Complete AM sensor P/N	Sensor type (see p6-7)	Nut torque (N.m)	Screw torque (N.m)	Activation (Ref key below)
VW Continued	Touareg (7L)	2002 --> 2006	Beru 0 532 207 005	RDE005 Chassis N° 7L-7-06 06 22	65738-67	Huf/Beru	4	4	D
	Touareg	2007 -->	Beru 0 532 207 007	RDE007 Chassis N° 7L-7-06 06 23	65739-67	Huf/Beru	4	4	D
	Touareg 2011	2011 -->	Beru 0 532 207 011	RDE011 Chassis N° 7P-B-000001 --> 7P-B-070 001	66080-67	Huf/Beru	4	4	D
VOLVO	C30	2007 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	C70	2006 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	S40	2004 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	S60	2006 --> 2008	SEL 90518149	30748354	65716-67	Gen2/Gen3	75	--	B
	S60	2010 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	S80	2006 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	V50	2004 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	V60	2010 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	V70	2006 --> 2007	SEL 90518149	30748354	65716-67	Gen2/Gen3	75	--	B
	V70	2007 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	XC60	2008 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	XC70	2006 --> 2007	SEL 90518149	30748354	65716-67	Gen2/Gen3	75	--	B
	XC70	2007 -->	VDO S180084730Z	S180052020	66042-67	TG1C	8	--	B
	XC90	2006 -->	SEL 90518149	30748354	65716-67	Gen2/Gen3	75	--	B

Sensor Types

TYPE: Huf/Beru

Common applications inc:

Audi, BMW, Ferrari, Mercedes, Porsche, Volkswagen

TYPE: Gen Alpha

Common applications inc:

Chrysler, Dodge, Jeep, Mercedes, Smart

TYPE: Gen2/Gen3

Common applications inc:

Infiniti, Lotus, Nissan, Renault, Saab, Vauxhall, Volvo

TYPE: MB

Common applications inc:

Mercedes

TYPE: Snap-in REV4

Common applications inc:

Citroen, Peugeot

TYPE: Gen J

Common applications inc:

Chevrolet

TYPE: TG1B

Common applications inc:

Citroen, Fiat, Hyundai, LandRover, Peugeot, Renault, Volkswagen

TYPE: TG1C

Common applications inc:

Ford, Hyundai, Jaguar, Kia, Mazda, Volvo

FROM THE SERIES OF HANDY WORKSHOP GUIDES

90+

Branches in England covering an area from Newcastle to Bournemouth

Find your nearest branch online:

www.andrewpage.com
www.camberleyautofactors.com

Engine Management Centre

☎ 023 9221 0020

TYRE PRESSURE MONITORING SENSORS AND EQUIPMENT GUIDE

Andrew automotive Page

Illustrations representative only. Produced as an informative guide only, not intended as an educational manual. Trade only. Part numbers and applications given are for guidance only - check with your local branch. Copyright © 2014 The Andrew Page Group.

Andrew Page Ltd, Apson House, Colton Mill, Bullerthorpe Lane, Leeds LS15 9JL Tel: 0113 397 0200.

Camberley Auto Factors Ltd, Unit 2, Hawley Trading Estate, Hawley Lane, Farnborough, Hampshire GU14 8EH Tel: 01252 517272.

04/14